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Work Order ID 60589

Thursday, July 15, 2010 10:18:42 AM



Page 1

Item ID:

D206-642-341

Accept

Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

Required Date: 7/22/2010

7/15/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Sequence ID/

Work Center ID

Process Plan:

Date: 10-7-15 Tooling:

Date:

Date:

Date:

Start

Run



Ínsp.

Stamp

Stop

Reject

Number

Stop

Operation Set Up/ Tool ID Tool # Plan Accept Reject Description Run Hours Code Qty Qty

SPC (Y/N):

Draw Nbr Revision Nbr F

QC:

D2650

100

DOCUMENT CONTROL

Memo

0.00

0.00

Document Control

Photocopy bluefile and create labels per PPP D206-642-341

CHG003

| Dort Ac | rospace l | Ltd | | | | | | | | £.* |
|-------------|-----------|-------------------|----------------------------------|-----------------------------|------|----------------|---------|--------------|-------------------------------------|------------------------|
| W/O: | Tospace | Liu | WOI | RK ORDER CHAN | IGES | _ | | | | - |
| DATE | STEP | PRO | OCEDURE CHAN | | | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approva QC Inspecto |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Part No | | PAR #: | | | | | | | Date: _ | |
| Resolution: | | | Disposition: | | QA: | N/C CI | osed: | <u> </u> | Date: _ | |
| NCR: | | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | | |
| DATE | CTED | Description of NC | C | Section B | | | ation | ion Approval | Approva | |
| DATE | STEP | Section A | Initial Chief Eng | Action Descriptio Chief Eng | n | Sign 8 Date | Section | | Chief Eng | QC Inspect |
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|--------------------------------|------------------------|------------------------------------|--|------------------------|----------------------|---------------------|------|------|-------|------------------|-----------------|
| Work Orde Thursday, July 1 | | | | | | | | | | | Page |
| Item ID: Revision ID: | D206-642-3 | 41 | | Accept | | | | Setu | | | |
| Item Name: | Replacement | Skidtube | | | | I | | | Stop | | |
| Required Date: | 7/15/2010 7/22/2010 | Start Qty: 1.00 Req'd Qty: 1.00 | | | Cust Iter Custome | ı | | | | | |
| Reference: | | | | | | | _ 1 | D | 644 | | |
| Approvals: | Process Pla | an: | Date: | Tooling: | | Date: | | Run | Start | | |
| | QC: | | Date: | SPC (Y/N): | | Date: | | | Stop | | |
| Sequence ID/ Work Center II |) | Operation Description | | Set Up/ Run Hours | Tool II | Tool# | | - | • | Reject Number | Insp. Stamp |
| | | Skidtubes | | 0.00 | | | 1 | | | | |
| Skidtubes | | Memo | | 0.00 | . ~ | $\langle h \rangle$ | | | | | * +- |
| Skidtubes | | 1-Deburr Fv | vd edge of tube | | | | 10 - | 7-1 | 7 | | |
| | | 2-Remove r | idge on inside of Fwd edge | of tubeas per Dwg D26 | 50 | _ ' | / - | | | | |
| | | | d Cap as per Dwg D2650. U minum Rod□ <u>∕⁄⁄11/2/5</u> | | | 10/07/1 | 9 | | | | |
| | | | d flush to cap on top surfa | ce only. BE | 10/07/19 | / / | | | | | • |
| | | 5-Cut aft en | d to lenght as per dwg D2 | 650 | '/"/// | | | | | | |
| | | 6-Drill pilot Ø0.312" | holes using drill Jig DT81 | 68A (A,& B) and DT80 | 025. Open to | | | | | 4 | |
| a | | 7-Drill holes | s for wearplates using DT 8 | 8028-5. Open to Ø 0.29 | 7". | | | | | | |
| •4 | | 8-Open Aft | Cap Hole using #6 Drill E | ≈4 Bit | ` | 150 | | | A | | |
| | | 9-Open hole Detail | es for Tow Ring to Ø0.625 | " as per Dwg D2650, D2 | :650-5 Drilling | | 10 | 7-7- | - 0 | | |

10-Remove inner indexing ridge on aft end of skidtubeas per Dwg D2650

11-Deburr and Blow out all chips form inside the tube

Dart Aerospace Ltd WORK ORDER CHANGES W/O: Approval **Approval** Qty DATE **STEP** By Chief Eng / PROCEDURE CHANGE Date QC Inspector Prod Mgr Part No: ______ PAR #: _____ Fault Category: _____ NCR: Yes No DQA ____ Date: _____ Resolution: _____ QA: N/C Closed: ____ Date: **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B Verification **Description of NC Approval Approval** DATE **STEP** Sign & **Action Description** Initial Section C Chief Eng QC Inspector Section A Date Chief Eng Chief Eng

Work Order ID 60589

Thursday, July 15, 2010 10:18:42 AM



Page 3

Item ID:

D206-642-341

Accept

Setup Start



Revision ID:

Item Name: Replacement Skidtube

Start Date:

7/15/2010

Start Qty: 1.00

Required Date: 7/22/2010

Req'd Qty: 1.00



Date:_____

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: _____ Date:

Tooling:

Date:

Start Run

Stop

Sequence ID/ Work Center ID

115

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

SPC (Y/N):

Tool ID Tool # Plan

Date:

Accept Code Qty

Reject Qty

Reject Insp. Number Stamp

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

Memo

Memo

0.00

0.00

125

QC

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

| Dart Aerospace Ltd | Dart | Aeros | pace | Ltd |
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| W/O: | | | W | /ORK ORDER CHANGI | ES | | | | | , . |
|---------|----------|-------------------|--|------------------------------|-----------|-------------|-----------------|---------|-------------------------------|--------------------------|
| DATE | STEP | PRO | OCEDURE CH | ANGE | Ву | | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | : | PAR #: | Fault Car | tegory: | NCR: Y | es N | lo DQA : | <u></u> | Date: _ | |
| | R | esolution: | Disposit | ion: | _ QA: N/0 | Clo | sed: | | Date: _ | |
| NCR: | | | WORK OR | DER NON-CONFORMA | NCE (N | CR) | | | | |
| DATE | CTED | Description of NC | | Corrective Action Section | | | Verifica | ion | Approval | Approval |
| DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | | gn & ate | Section | | Chief Eng | QC Inspector |
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| Work Orde Thursday, July 1 | | | | | | | | | Page |
| Revision ID: | D206-642-3 | | | Accept | | | | Setup Star | |
| Item Name: Start Date: Required Date: Reference: | Replacement Skidtube 7/15/2010 | | | | | ID: | ě | Sto | P |
| Approvals: | | an: | Date: | Tooling: SPC (Y/N): | | ate:ate: | | Run Star | |
| Sequence ID/ Work Center II |) | Operation Description | | Set Up/ Run Hours | Tool ID | Tool # Pla Co | | Reject Qty | Reject Insp. Number Stamp |
| Skidtubes Skidtubes | | Skidtubes Memo | | 0.00 | ٠., | | | B_{l} | E 10/07/01 |
| SKILLIDES | | (without cur 2-Countersi 3-Deburr. B 4-Bond D26 cure time be Start Date: L Finish Date | ting fluid) nk crossbolt spacer hole low out chips. Grind al 154-5 web in place as perfore cutting 156-721 Time: 157-721 Time: 158-7-71 Time: | 91.00 Am | ut cutting fluid) | | | | |

QC5- Inspect part completeness to step on W/O

Memo

140

Quality Control

Dart Aerospace Ltd W/O: WORK ORDER CHANGES DATE STEP PROCEDURE CHANGE By Date 2ty Chief Eng / Prod Mgr OC Inspector Approval OC Inspector

| Part No: | | PAR #: | Fault Category: | NCR: Yes No | DQA: | | Date: |
|----------|-------------|--------|-----------------|----------------|------|--------------|-------|
| | Resolution: | | Disposition: | QA: N/C Closed | l: | | Date: |

| | • | WORK ORD | ER NON-CONFORMANO | CE (NCR) | | | |
|------|-------------------|------------------------|--|---|--|--|--|
| | Description of NC | | Approval | Approval | | | |
| STEP | Section A | | | | | Chief Eng | QC Inspector |
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| | STEP | STED Description of NC | STEP Description of NC Section A Initial | STEP Description of NC Section A Initial Action Description | STEP Description of NC Section A Initial Action Description Sign & | STEP Description of NC Initial Action Description Sign & Vernication Section C | STEP Description of NC Corrective Action Section B Verification Approval Section A Section C Chief Eng |

| Work Orde | | | | | | | | | | | 1 | Page 5 |
|---|---------------------------|--|--|--|--|-----------------|--------------|--------------|---------------|---------------|------------------|----------------|
| Revision ID: | D206-642-34 Replacement S | | | Accept | | | | | Setup | Start Stop | | |
| Start Date: Required Date: Reference: | 7/15/2010 7/22/2010 | Start Qty: 1.00 Req'd Qty: 1.00 | | | Cust It | tem ID: mer: | | | | | ! IBB:!!!B! BIS | |
| Approvals: | Process Pla | nn: | Date: | Tooling: SPC (Y/N): | | Date: | | | Run | Start Stop | | |
| Sequence ID/ Work Center II 150 Skidtubes Skidtubes | - | and Dwg Di | QSI 005 and Insert cross bo 2650. Remember to back o | Set Up/ Run Hours 0.00 . 0.00 | Tool as per QSI 004 efore welding the | | Plan Code | Accep Qty | ot Rej Qty | | Reject Number | Insp. Stamp |
| | | A/R□□Alu: 2-Grind wel Skidtube 3-Counterbo | Use aluminum rod. minum Rod ds flush as per Dwg D2656 ore 5/16" x 0.750" deep as t plate as per dwg | | to inside of the | 10/07/20 | \ | 0- | 7- 7 | ?- C | > | 1 |
| 170 QC | | QC10- Inspect visual per | r QSI004- ground welds | Jos 2 00.0 | ostro. | | | ∞ | | | | |

Quality Control

| W/O: | | WORK ORDER CHANGES | | | | | | | | , . |
|---------|-------------|--------------------|----------------------|------------------------------|------|----------|-----------------|-----|-------------------------------|---------------------------------------|
| DATE | STEP | PROC | EDURE CH | IANGE | | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | | PAR #: | _ Fault Ca | tegory: | NCI | R: Yes N | lo DQA : | | Date: | ···· |
| | | esolution: | | | | | | 1 | Date: | · · · · · · · · · · · · · · · · · · · |
| NCR: | ICR: W | | | DER NON-CONFORMA | NCE | (NCR) | | | | |
| DATE | STEP | Description of NC | In tat at | Corrective Action Section | on B | Sign & | Verificat | ion | Approval | Approval |
| DAIL | 0.L. | Section A | Initial Chief Eng | Action Description Chief Eng | | Date | Section | C | Chief Eng | QC Inspector |
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Work Order ID 60589

Thursday, July 15, 2010 10:18:42 AM



Page 6

Item ID:

D206-642-341

Accept

Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

7/15/2010

Start Oty: 1.00

Required Date: 7/22/2010 Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

Tool ID

Date: ! Date:

Start

Stop

Stop



Date: _____

SPC (Y/N):

Set Up/

Run Hours

Tool # Plan Code

Accept Reject Qty Qty

Run

Reject Number

Insp. Stamp

Sequence ID/ Work Center ID

180

OC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

0.00

190

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

0.00

0.00

Memo

0.00

Brush alodine tube on crossbolt spacer area, do not acid etch, do not dip tube in

tank.

1 Rt 10-7-27.

200

Powdercoat

Powder Coating

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

M/14/841

0.00

START TIME: 800 800 OVEN TEMPERATURE: 800 FINISH TIME:

1 Bl 10-7-28.

| W/O: | | | W | ORK ORDER CHANG | ES | | | | | , . |
|----------|------|-------------------|----------------------|------------------------------|-------|----------------|----------------|------|-------------------------------|--------------------------|
| DATE | STEP | PRO | CEDURE CH | ANGE | E | Зу | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | | | Prod Mgr | |
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| Part No | : | PAR #: | Fault Cat | legory: | NCR: | Yes N | o DQA : | | Date: | |
| | R | Resolution: | | | | | | | Date: | |
| NCR: | | V | VORK ORI | DER NON-CONFORMA | NCE (| NCR) | | | | |
| DATE | STEP | Description of NC | | Corrective Action Section | | | Verifica | tion | Approval | Approval |
| DATE | SIEP | Section A | Initial Chief Eng | Action Description Chief Eng | | Sign & Date | Section | С | Chief Eng | QC Inspector |
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| | Work Order ID 60589 Thursday, July 15, 2010 10:18:42 AM | | | | | | | | | |
|---|--|--------------------------|-------|----------------------------|----------------|-----------------------|---------------|---------------|------------------------------|--|
| Item ID: Revision ID: Item Name: | D206-642-3 Replacement | | | Accept | | | Setup | Start Stop | | |
| Start Date: 7/15/2010 Start Qty: 1.00 Required Date: 7/22/2010 Req'd Qty: 1.00 Reference: | | | | Cust Item ID: Customer: | | | | | | |
| Approvals: | Process Pla | an: | Date: | Tooling: SPC (Y/N): | Date: | - | Run | Start | | |
| Sequence ID/ Work Center I | D | Operation Description | | Set Up/ Run Hours | Tool ID Tool # | Plan Acce Code Qty | pt Rej Qty | | Reject Insp. Number Stamp | |

Quality Control

210

QC3- Inspect Part Finish

Memo

0.00

Run Hours

10/08/03

Dart Aerospace Ltd W/O: **WORK ORDER CHANGES** Approval Chief Eng / **Approval** STEP Qty DATE PROCEDURE CHANGE Ву Date QC Inspector Prod Mgr Part No: ______ PAR #: ____ Fault Category: _____ NCR: Yes No DQA: ____ Date: ____ Resolution: _____ Disposition: ____ QA: N/C Closed: ____ Date: ____ WORK ORDER NON-CONFORMANCE (NCR)

| NCR: | | | | | | | | |
|------|------|-------------------|----------------------|------------------------------|----------------|------------------------|-------------|--------------------------|
| | | Description of NC | | Corrective Action Section B | | | on Annroyal | Approval |
| DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | Sign & Date | Verification Section C | | Approval QC Inspector |
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| Work Orde Thursday, July 1 | | | | | | | | | | | | Page 8 |
|---|------------------------|------------------------------------|--|----------------------|---------------------|---------|--------------|---------------|-------------|-------|------------------|----------------|
| Item ID: Revision ID: | D206-642-3 | 41 | | Accept | | | | iiii s | Setup | Start | | |
| Item Name: | Replacement | Skidtube | | | | | | | | Stop | | |
| Start Date: Required Date: Reference: | 7/15/2010 7/22/2010 | Start Qty: 1.00 Req'd Qty: 1.00 | | · | Cust Ite Custom | | | | | | | ** |
| Approvals: | Process Pla | an: | Date: | Tooling: | | Date: | | F | Run | Start | | |
| | QC: | | Date: | SPC (Y/N): | | Date: | | | | Stop | | |
| Sequence ID/ Work Center II 220 |) | Operation Description | | Set Up/ Run Hours | Tool I | D Tool# | Plan Code | Accept Qty | Rejo Qty | | Reject Number | Insp. Stamp |
| HandFinish | | HandFinishing Memo | | 0.00 | W 10 | loslo | 3 | | | Ø | · | + |
| Hand Finishing | | insert holes t A/R□□Sika | erts & wearpads as per dwg pefore installing wearpad/w flex-291 \(\textstyle \) \(\textst | vearplate. | f Sikaflex inside | | | | | | | |
| | | plugs as per | Rings D2651-3 on plugs D2 Dwg D2650. Clean excess 27039-4-06 Screw as per E | adhesive | n Jelly and install | 1 | | | | | | |
| | | | foreign object per QSI 024 | | | | | | | | | |
| | | A/R□□Sika | 646 Aft Cap and seal with 5 flex-291□ <u>//(</u> | SikaflexClean excess | adhesive | | | | | | | · · |
| a | | 6-Wing Wall Batch:^/ | k as per Dwg D2650-5 and | QSI•905 4.4□ | | | | | a | | | |

Dart Aerospace Ltd W/O: **WORK ORDER CHANGES** Approval **Approval STEP PROCEDURE CHANGE** Qty DATE By Chief Eng / Date QC Inspector Prod Mgr Part No: _____ PAR #: ____ Fault Category: _____ NCR: Yes No DQA ____ Date: _____ Resolution: _____ Disposition: _____ QA: N/C Closed: ___ Date: _____ **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B Verification **Description of NC Approval** Approval DATE **STEP** Sign & **Action Description** Initial Section C Chief Eng QC Inspector Section A Date Chief Eng Chief Eng

| Wո | rk | Ord | er ID | 6058 | Q |
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Thursday, July 15, 2010 10:18:42 AM



Page 9

Item ID:

D206-642-341

Accept

Setup Start





Revision ID:

Item Name:

Replacement Skidtube

Start Date:

7/15/2010

Start Qty: 1.00

Required Date: 7/22/2010

Req'd Qty: 1.00



Cust Item ID: **Customer:**

Tool ID

Reference:

Approvals:

Process Plan: _____ Date:__

Date:_____

Tooling:

SPC (Y/N):

Date:

Tool # Plan

Code

Date:

Reject

Qty

Start



Insp.

Stamp

QC:

Sequence ID/ Work Center ID

230

QC

Quality Control

Operation **Description**

QC3- Inspect Part Finish

Memo

Set Up/ **Run Hours**

0.00

0.00 5 (3/08/03

Run

Accept

Qty

Stop

Reject

Number

240

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

8 10/08/03

250

Packaging Packaging

Packaging

Memo

0.00

Identify and pack for shipping as per PPP D206-642-341

PHA 60099

lus/0/0 (1) "

Dart Aerospace Ltd WORK ORDER CHANGES W/O: Approval **Approval STEP** PROCEDURE CHANGE Qty DATE By Date Chief Eng / QC Inspector Prod Mgr Part No: ______ PAR #: ____ Fault Category: _____ NCR: Yes No DQA ____ Date: ____ Resolution: _____ Disposition: _____ QA: N/C Closed: ____ Date: _____ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification **Approval Approval STEP** DATE Sign & **Action Description** Initial Section C Chief Eng QC Inspector Section A Date Chief Eng Chief Eng

| Work | Order | ID | 60589 |
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| | | | |

Thursday, July 15, 2010 10:18:42 AM



Page 10

Item 1D:

D206-642-341

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

7/15/2010

Start Qty: 1.00

Required Date: 7/22/2010 **Req'd Qty:** 1.00



Date:_____

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: QC:

Date:

Tooling:

Date:

Date:

Stop

Start



Sequence ID/ **Work Center ID**

Operation Description

QC21- Final Inspection - Work Order Release

Set Up/ **Run Hours**

0.00

SPC (Y/N):

Tool ID

Tool # Plan Code

Accept Qty

Run

Reject Reject Qty Number

Insp. Stamp

260

Memo

0.00

Quality Control

Dart Aerospace Ltd WORK ORDER CHANGES W/O: **Approval Approval** STEP PROCEDURE CHANGE By Qty DATE Date Chief Eng / QC Inspector Prod Mar Part No: ______ PAR #: ____ Fault Category: _____ NCR: Yes No DQA ____ Date: _____ Resolution: _____ Disposition: _____ QA: N/C Closed: ____ Date: ____ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification Approval **Approval** DATE **STEP** Sign & **Action Description** Initial Section C Chief Eng QC Inspector Section A Date Chief Eng Chief Eng

Picklist Print

Thursday, July 15, 2010 10:18:46 AM

Work Order ID: 60589

Parent Item: D206-642-341

Parent Item Name:

Replacement Skidtube



Start Date: 7/15/2010

Required Date: 7/22/2010

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev: H□05.10.11□Added D3429-1 per CHG004□KJ/CP/JLM
IPP Rev:I 08-09-29 revF as per dwg DD verified by:EC Est Rev:J 09-

| (| 03-02 as per DSI9 | 9440 rev.a DD | verified | by:EC | | | | | | | | | |
|---------------------------------|--|---------------|-------------|--------------------------|----------------------------|-----------------|--------------------------------------|----------------|-------------|------------------|---------------|----------------|--------|
| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
| AN960JD416 Washer | NAS1149D0463J | Purchased | No | MI | 15000 | | Each | 0.0000 | 1 | 1 X\ <u>Y</u> | 1 10 | 0800 | 3 |
| CCR264SS3-3 Cherry Rivet | 1 164 164 164 164 164 164 164 | Purchased | No | | | | Each | 540.0000 | 2 | 2 | | | |
| CR3212-4-03 Cherry Rivet | 11 10 14 15 16 16 16 16 16 16 16 | Purchased | No | Location ST311 | 112314 113539 113973 | <u>Loc</u> | 940 540 4 60 476 Each | 3,739.000 | 0 - 7-2 | 26 | - | | |
| | | | | <u>Location</u> ST311 | 111359 112314 | <u>Loc</u> | Oty 3739 5 30 | Loc Code | _ _ _ | | : - - | | |

114436 1142 114450 114859 10-126

Dart Aerospace Ltd WORK ORDER CHANGES W/O: Approval **Approval** By Qty DATE **STEP** PROCEDURE CHANGE Date Chief Eng / QC Inspector Prod Mgr Part No: ______ PAR #: ____ Fault Category: _____ NCR: Yes No DQA ____ Date: _____ Resolution: _____ QA: N/C Closed: ____ Date: ____ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification **Approval Approval** DATE **STEP** Sign & **Action Description** Initial QC Inspector Section C Chief Eng Section A Date Chief Eng Chief Eng • :

Picklist Print

Thursday, July 15, 2010 10:18:46 AM

Work Order ID: 60589

D206-642-341

Parent Item Name:

Parent Item:

Replacement Skidtube



Start Date: 7/15/2010

Required Date: 7/22/2010

Page 2

Start Qty: 1.00

Required Qty: 1.00

D2620

Manufactured No

Manufactured

Manufactured

Manufactured

Manufactured

Each

12.0000

Skidtube, 206 Skidtube

Location

LG

No

No

No

No



Loc Qty 12 2 10

Each

Loc Code

80.0000

D2647

Cap

Location

FP

55352

Loc Qty

Loc Qty

80

80

69

69

Each

Each

Each

Loc Code

69.0000

D2649

Cross Bolt Spacer

Location

LG

58545

Loc Code

43.0000

Web D2680-041

D2654-5

Nut Plate

Location

ST021

55366

Loc Qty

Loc Code

Thursday, July 15, 2010 10:18:46 AM

Shop Packet Print

Page 2

Dart Aerospace Ltd W/O: **WORK ORDER CHANGES** Approval **Approval** STEP PROCEDURE CHANGE DATE By **Date** Qtv Chief Eng / QC Inspector Prod Mar Part No: ______ PAR #: ____ Fault Category: _____ NCR: Yes No DQA: ____ Date: ____ Resolution: _____ Disposition: _____ QA: N/C Closed: ____ Date: ____ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification Approval Approval DATE **STEP** Sign & Initial **Action Description** Section A Section C QC Inspector Chief Eng Date Chief Eng Chief Eng

Thursday, July 15, 2010 10:18:46 AM

Work Order ID: 60589 Parent Item: D206-642-341 Parent Item Name: Replacement Skidtube Start Date: 7/15/2010 Required Date: 7/22/2010 Start Qty: 1.00 Required Qty: 1.00 ALS4-1032-130 Purchased No 220 Each 4,506.000 54 54 Insert Location Loc Qty Loc Code PKG11 4190 114723 4190 X54 91 10/08/03 ST282 277 110511 38 114407 239 ST381 39 114654 39 AN960C10L NAS1149C0332 Purchased No 220 0.0000 Each 54 x54 10/08/03 11115000 washer AN960JD10L NAS1149D0332J Purchased No 220 3,181.000 Each 1 2 Washer Location Loc Oty Loc Code XZ DI 10/08/03 ST348 3181 (10985 3181 D2646 Manufactured No 220 Each 94.0000 Aft Cap Location Loc Oty Loc Code FP-4 85 10108107 67332 85 FP6 9 52663 9

| W/O: | | | W | ORK ORDER CHANGI | ES | - | | | | |
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| DATE | STEP | Description of NC | | Corrective Action Section | | 0 | Verifica | | Approval | Approval |
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Picklist Print

Thursday, July 15, 2010 10:18:46 AM

Work Order ID: 60589

Parent Item:

D206-642-341

Parent Item Name: Replacement Skidtube



Start Date: 7/15/2010

Required Date: 7/22/2010

Page 5

Start Qty: 1.00

Required Oty: 1.00

D3535-35



Wearshoe

Manufactured No

Manufactured

Manufactured

220

220

Each

7.0000

Location

FP018

No

No

No

Loc Qty

Each

Loc Code

19.0000

Loc Code

H 10/68/07

D3536-11

Gasket

Location FP011

(57867 ST497A

(59237

220

220

Loc Oty

50180101 HEIX

D3536-23

Gasket

Location FP011

46649

46715

Loc Oty 6

Each

6.0000

Each

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10/08/03

D3536-35

Gasket

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Location

FP012

Loc Qty 11

11

Loc Code

VI 10108103

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| 10:07.2 | 720 | USE MS27039<1-08 /M19185 MSTEAD OF MS27039-1-08 | | 10/09/20 | 56 | (f) (0) 57,76 (0) 047 | |
| | | REFERENCEON | | : | | , | : |

| Part No: D206-642-341 PAR #: | Fault Category: | NCR: Yes No DQA: | Date: |
|------------------------------|-----------------|------------------|-------|
| Resolution: | Disposition: | QA: N/C Closed: | Date: |

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| DATE | STEP | Description of NC | | Corrective Action Section B | | Wifigation | | |
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| | | IPD CALLS FOR | d | UPDATE IPP | | | P | |
| 10.07,26 | 225 | MS27039-1-08 | 10,07,20 | UPDATE IPP TO COLL FOR MS 27239 CF-08 | | | 10.67,20 | |
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QTY QTY QTY PART NUMBER DESCRIPTION X D2650-1 SKIDTUBE ASSEMBLY Х D2650-3 SKIDTUBE ASSEMBLY D2650-5 Х SKIDTUBE ASSEMBLY х D2650-7 SKIDTUBE ASSEMBLY D2600-1-160 EXTRUSION D2654-1 WEB D2654-3 WEB D2654-5 WEB D2654-7 WEB D2646 AFT CAP D2647 CAP 1 17 18 19 23 D2649 CROSS BOLT SPACER 16 18 14 22 D2651-1 PLUG 16 18 14 22 D2651-3 O-RING D2680-041 **NUT PLATE** 2 D3286-1 DOUBLER 2 2 D3286-3 STUD 42 ALS7-1032-130 INSERT (or AKS4-1032-130, ALS4-1032-130, ALS7-1032-130) 2 2 2 2 AN960JD10L WASHER 2 2 2 2 CCR264SS3-3 RIVET 2 2 2 2 CR3212-4-03 RIVET 2 2 2 2 MS27039-1-08 SCREW 1 MS27039-4-06 SCREW AN960JD416 WASHER 52 52 CR3212-4-04 RIVET

SHOP COPY RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

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NOTES:

1) MATERIAL: N/A

2) FINISH: -CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

-POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3

-BLACK ANTI-SKID PAINT AS INDICATED TO 0.5 ABOVE LOCATION RIDGE PER DART QSI 005 4.4

- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A 8) WELD PER DART QSI 004
- 9) DAMAGE TOLERANCE ON FWD BEND:

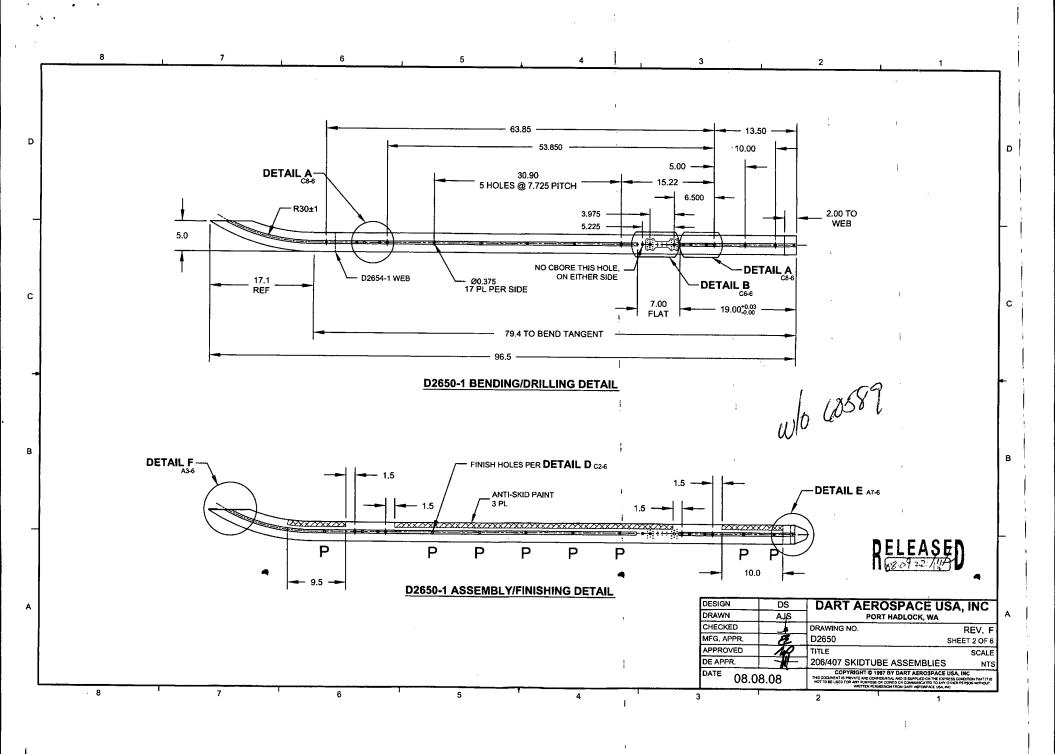
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 5 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.

- 10) BOND WEB INTO OUTER TUBE WITH SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015
- 11) INSERT D2651-1 PLUG C/W D2651-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE)
- 12) DRILL Ø0.297 FOR ALS7-1032-130 INSERTS USING TEMPLATE DT8056-1 ON -1 TUBE, DT8056-3 ON -3 TUBE, DT8056-5 ON -5 TUBE, AND DT8056-7 ON -7 TUBE. INSTALL INSERTS AFTER FINISH,
- 13) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

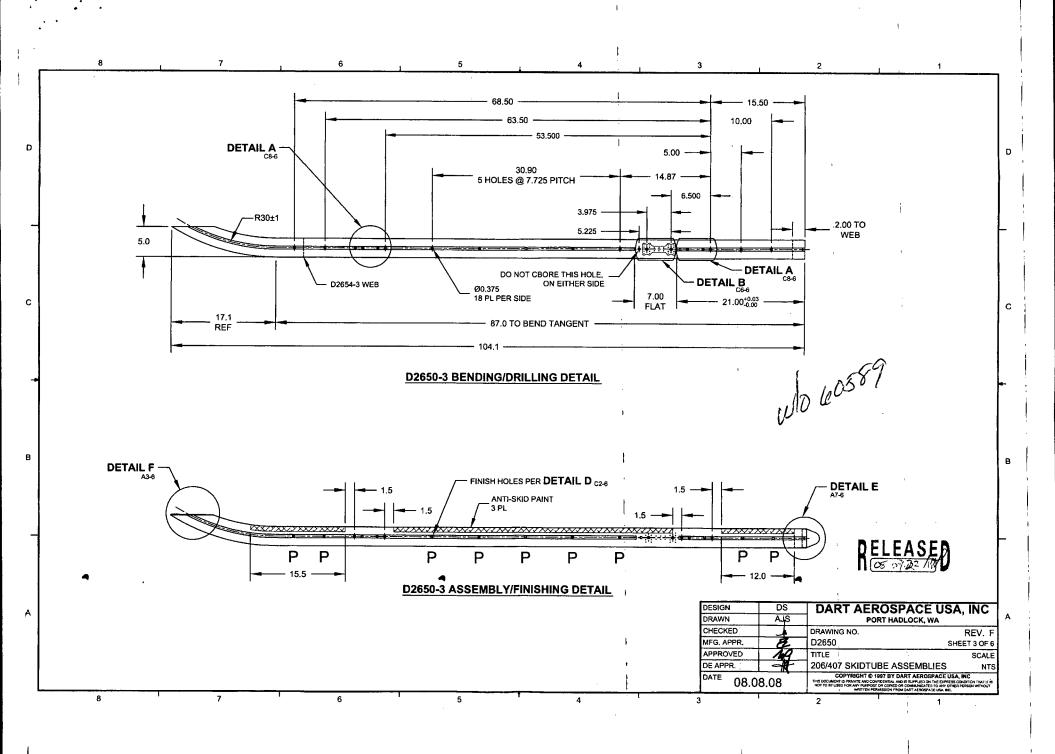
| | · | | |
|------|---|-----|----------|
| F | DRAWING UPDATED TO CURRENT STANDARDS, SHT 6 ADDED, ALL SECTION AND BETAIL VIEWS TRANSFERED TO SHT 6, SHT 1 IN PL PART D2649 QTY UPDATED, SHT 6 SECT C-C GRIND INSTRUCTIONS DELETED FROM NOTE 7 (SEE NOR 239). | AJS | 08.08.08 |
| Е | RMOVE CBORE, CHG DRILL, ADD CHAMFER | CP | 06.03.30 |
| D | REDRAW; INCORP. DEO9136/9153/9163 MOD GROUND HANDLING ON D2650-1/-3 | СР | 04.05.17 |
| С | CHANGE HOLE PATTERN AND FRONT END | DS | 97.10.29 |
| В | AS MANUFACTURED CHANGES | 'DS | 97.06.26 |
| Α | NEW ISSUE | DS | 97.03.25 |
| REV. | DESCRIPTION | BY | DATE |
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| DESIGN | _ DS | ■ DART AEROSPACE USA | A. INC | | | | |
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| CHECKED | | DRAWING NO. | REV. F | | | | |
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| APPROVED | 10 | TITLE | SCALE | | | | |
| DE APPR. | -1 | 206/407 SKIDTUBE ASSEMBLIES NTS | | | | | |
| DATE 08.0 | 8.08 | COPYRIGHT © 1997 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIMATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONCEINED THAT IT IS NOT TO BE USED FOR ANY PURPOSED OR COMPETON OF THE PEPPON WITHOUT | | | | | |

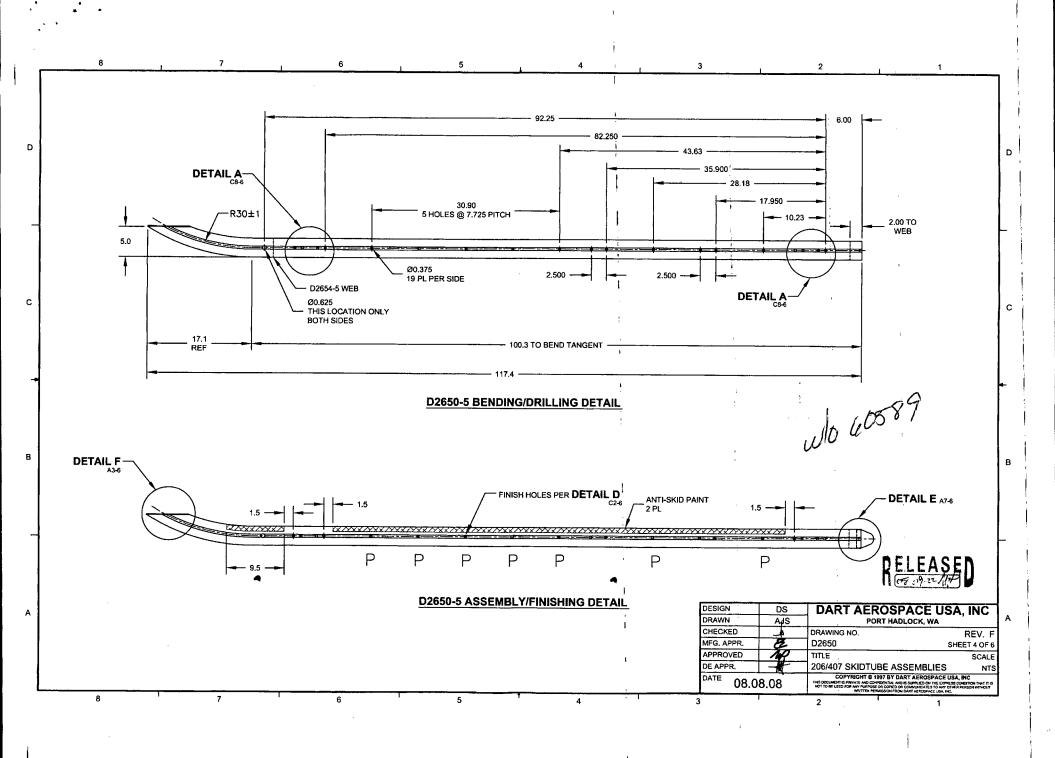
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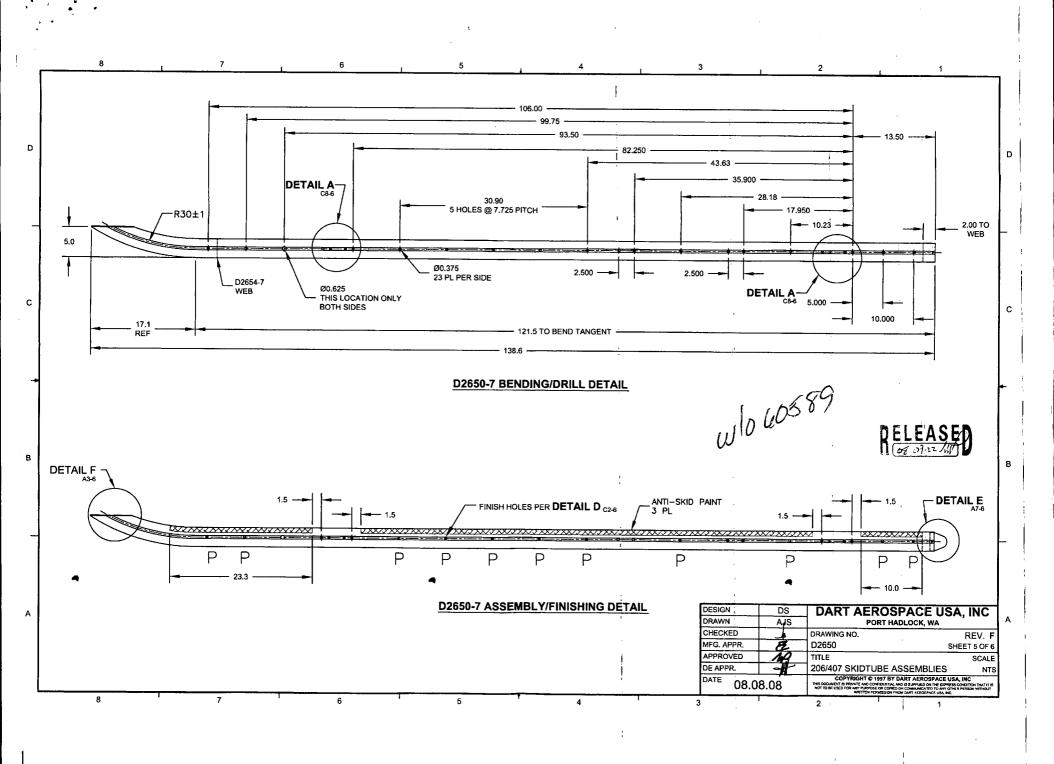
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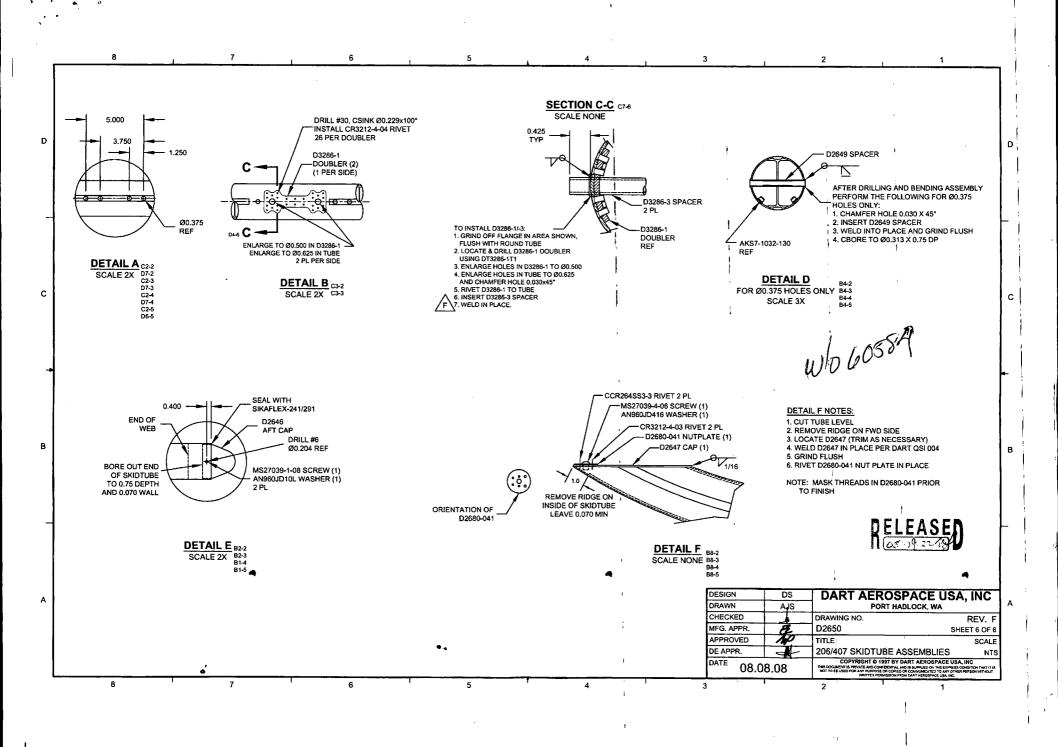
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NO. 235

AWS D17.1.2001 QUALIFICATION TEST RECORD

| Name: Borday Elliett. |
|------------------------------|
| Job number: 59780 |
| Part number: 0206-642-541 |
| Description: 206 skid tube |
| Welding Process: Tig[Mig[] |
| Base materiel: Aluminian |
| Current: AC DC[] |

TEST REQUIREMENTS AND RESULTS

| Visual: Penetration: | pass[] fail[] pass[] fail[] |
|---|---|
| <u>UNACCEPTABLE</u> | |
| Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration: | pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] |
| Qualifier Child Welder Barelay Strong | Date of Test Coupon_10.07.01- Date of Test Coupon_10-07-01 |

The above named individual is qualified in accordance with AWS D17.1.2001 to weld